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MECHANICAL ENGINEERING DEPARTMENT

UNITS FOR TERM 1 2025

NO.	STAGE	TYPE OF EXAM	UNITS	ASSESSMENT FEE
DAE 22S				
1.	MOD M3 TERM 1	KNEC	THERMODYNAMICS	
			PROJECT	
			FLUID MECHANICS	
			MATHS	
			CAD	
			AE& E	
			CONTROL	
			BP	
ASSESSMENT FEE				10,500/=
DME 22S M3				
2.	MOD 3 TERM 1	KNEC	THERMODYNAMICS	
			PROJECT	
			FLUID MECHANICS	
			MATHS	
			CAD	
			PRODUCTION LINE PROCESSES	
			CONTROL	
			BP	
ASSESSMENT FEE				10,500/=
DAE 23M				
3.	MOD 2 TERM 2	KNEC	E/DRAWING	
			STRENGTH	
			MACHINES	
			IOM	
			MATHS	
			ENGINES	
			V/BODY	
			E/DRAWING	
ASSESSMENT FEE				9,600/=
CAE 23M				
4.	MOD 2 TERM 1	KNEC	V/ELECTRIC	
			PROJECT	
			TD	
			MATHS	



			WOM	
			ENGINES	
			COM/SK	
			BP	
			V/ELECTRIC	
			ASSESSMENT FEE	9,100
MEL6 23S				
5	CDACC	SUMMATTIVE	ENG MATH	COMMON
			Milling work	CORE
			E/D/ CAD	COMMON
			Sheet metal parts	CORE
			THERMODYNAMICS	CORE
			ASSESSMENT FEE	7,500/=
ATL6 23S/24J				
6.	CBET NyNP	SUMMATIVE	Strength of Materials principles	BASIC
			Mechanics of Machines	COMMON
			Vehicle Fuel System	CORE
			STEERING AND SUSPENSION	CORE
			Vehicle Body Works	CORE
			EE	BASIC
			ASSESSMENT FEE	8,500/=
MEL5 23S				
7.	CDACC	SUMMATIVE	Lathe Operations	CORE
			Milling operations	CORE
			Grinding operations	CORE
			CAD	CORE
			ASSESSMENT FEE	6,000/=
ATL5 23S/24J				
8.	CBET NyNP	SUMMATTIVE	Vehicle Fuel System	CORE
			Vehicle Steering and Suspension System	CORE
			Vehicle Electrical Systems	CORE
			Vehicle Body Works	CORE
			EE	BASIC
			ASSESSMENT FEE	7,000/=
AGEL6 23S				
9.	CDACC	SUMMATTIVE/ FORMATIVE	DIGITAL LITERACY	BASIC
			ENVIRONMENTAL LITERACY	BASIC
			OSHA	BASIC
			ENG.MATHS	COMMON
			TD	COMMON
			POST HARVEST ACTIVITIES	CORE
			TPU	CORE
			AGRICULTURAL HARVESTING MACHINERY AND EQUIPMENT	CORE
			TOTAL	10,500/=
MEL6 24M				



10.	CDACC	SUMMATTIVE/ FORMATIVE	ENG MATH	COMMON
			MATERIALS	COMMON
			EE	BASIC
			Communication skills	BASIC
			digital literacy	BASIC
			Mechanical Principle skills	COMMON
			Join parts by manual arc Welding	CORE
			ED/CAD	COMMON
			ASSESSMENT FEE	
ATL6 24M (A&B)				
11.	NyNP CDACC	SUMMATIVE	ENG MATHS	COMMON
			OSHA	BASIC
			Digital Literacy	BASIC
			Technical Drawings	COMMON
			Workshop Technology Principles	COMMON
			Electrical Principles	COMMON
			FUEL SYSTEM	CORE
			SUSPENSION AND STEERING	CORE
			MATERIALS	CORE
ASSESSMENT FEE			12,500/=	
ATL5 24M (A B&C)				
12.	NyNP	SUMMATIVE	WHEELS AND TYRES	CORE
			ENVIRONMENTAL LITERACY	COMMON
			OSHA	BASIC
			TD	COMMON
			Mechanical Science	COMMON
			Engineering Mathematics	COMMON
			Digital Literacy	BASIC
			FUEL SYSTEM	CORE
			STEERING AND SUSPENSION	CORE
			Workshop Technology Principles	COMMON
			ASSESSMENT FEE	
ATL4 24M (A,B,C,D,E& F)				
13.	CBET CDACC	SUMMATTIVE	DIGITAL LIT	BASIC
			STEERING AND SUSPENSION	CORE
			MAINTAINING WORKSHOP TOOLS	CORE
			OSHA	BASIC
			EE	BASIC
			Geometry Drawing	COMMON
			EMPLOYABILITY	BASIC
			ENVIRONMENTAL LITERACY	BASIC
			Servicing and Repairing Vehicle Fuel Systems.	CORE
ASSESSMENT FEE			7,200/=	
ATL3 24M				
14	NITA	SUMMATIVE	V./ PREVENTIVE MAINTENANCE	



			STEERING AND SUSPENSION	
			BRAKING SYSTEM	
			W/TECH	
			ENGINES	
			ASSESSMENT FEE	6,650/=
WFL4 24M				
15.	CDACC	SUMMATIVE	Manual arc(stick) welding	CORE
			Gas Welding	CORE
			Communication skills	BASIC
			Numeracy Skills	BASIC
			Occupational safety and health practices	BASIC
			Digital literacy	BASIC
			Workshop Processes	COMMON
			ASSESSMENT FEE	7,500/=
WFL3 24M				
16.	NITA	SUMMATIVE	Manual Metal Arc Welding	
			Workshop Processes	
			GAS welding	
			BENCH WORK	
			ASSESSMENT FEE	6,750/=
AGEL6 24M				
17	CDACC	SUMMATIVE	ENG MATHS	COMON
			EMPLOYABILITY	BASIC
			Entrepreneurial Skills	BASIC
			Principles of Mechanical Science	COMMON
			Electrical Principles	COMMON
			Workshop Technology Practices	COMMON
			MATERIALS	COMMON
			OPERATE HARVESTING MACHINERY	CORE
			ASSESSMENT FEE	8,500/=
AGEL5 24M				
18	CDACC	SUMMATIVE	MACH. & EQU.SYSTEM MAINT	CORE
			MACH. & EQU. REPAIR	CORE
			TD	COMMON
			ENG MATHS	COMMON
			ENVIRONMENTAL LITERANCY	COMMON
			Engineering Science Principles	COMMON
			EE	BASIC
			Mechatronics Workshop Practice	COMMON
			TRACTOR OPERATIONS	CORE
			ASSESSMENT FEE	10,500/=
AGEL4 24M				
19	CDACC	SUMMATIVE	AGRICULTURAL DIGITAL SYSTEM	CORE
			EE	BASIC
			EMPLOYABILTY	BASIC
			NUMERACY	BASIC
			ENVIRNMENTAL LITERACY	BASIC
			TD	COMMON



			ENGINEERING SCIENCE	COMMON
			MATHS	COMMON
			CULIBRATION OF FIELD EQUIPMENT	CORE
			ASSESSMENT FEE	7,800/=
WFL5 24M				
20	CDACC	SUMMATIVE	Estimation and costing	COMMON
			OSHA	BASIC
			SCIENCE CALCULATIONS	COMMON
			Geometry Drawing	COMMON
			EMPLOYABILITY	BASIC
			ENVIRONMENTAL LITERACY	BASIC
			fabrication of products and structures	CORE
			BASIC MATHS	COMMON
			ASSESSMENT FEE	7,100/=
WFL4 24M				
21	CDACC	SUMMATIVE	EE	BASIC
			Gas Welding	CORE
			ENVIRONMENTAL LITERACY	BASIC
			Numeracy Skills	BASIC
			EMPLOYABILITY	BASIC
			TD	COMMON
			MATHS	COMMON
			Scientific principles	COMMON
			ASSESSMENT FEE	6,800/=
MEL5 24M				
22	CDACC	SUMMATIVE	Mechanical science principles	COMMON
			ENVIRONMENTAL LITERACY	BASIC
			Sheet metal Fabrication	CORE
			ENG MATHS	COMMON
			Technical drawing	COMMON
			Electrical principles	COMMON
			Communication skills	BASIC
			ASSESSMENT FEE	9,000/=
ATL6 24S				
23	NyNP	SUMMATIVE/FORMATIVE	ENG MATHS	COMMON
			COM/SK	BASIC
			ENGINES	CORE
			TRANSMISSION SYSTEM	CORE
			BRAKING SYSTEM	CORE
			Digital Literacy	BASIC
			Technical Drawings	COMMON
			Workshop Technology Principles	COMMON
			ASSESSMENT FEE	9,500/=
ATL5 24S				
24	NyNP	SUMMATIVE/FORMATIVE	Electrical Principles	COMMON
			Vehicle Engine Components	CORE
			Vehicle Braking System	CORE
			Vehicle Transmission Systems	CORE



			Communication Skills	BASIC
			Mechanical Science	COMMON
			Engineering Mathematics	COMMON
			Digital Literacy	BASIC
			Entrepreneurial Skills	BASIC
			Electrical Principles	COMMON
			Workshop Technology Principles	COMMON
			ASSESSMENT FEE	12,500/=
ATL4 24S				
25	CDACC	SUMMATIVE	BASIC MATHS	COMMON
			Servicing Vehicle Braking Systems.	CORE
			Servicing and Repairing Vehicle Engines.	CORE
			Servicing Vehicle Electrical Systems.	CORE
			Communication Skills	BASIC
			Geometry Drawing	COMMON
			Basic Science Principles	COMMON
			Workshop Technology Applications	COMMON
			Servicing and Repairing Vehicle Fuel Systems.	CORE
			ASSESSMENT FEE	12,000/=
AGEL6 24S				
26	CDACC	SUMMATIVE	ENG MATHS	COMMON
			TPU	CORE
			PRODUCTION MACHINERY & EQUIPMENT (PM&E)	CORE
			Communication Skills	BASIC
			Entrepreneurial Skills	BASIC
			Principles of Mechanical Science	COMMON
			Electrical Principles	COMMON
			Workshop Technology Practices	COMMON
			MATERIALS	COMMON
			ASSESSMENT FEE	11,500/=
MEL6 24S				
27	CDACC	SUMMATIVE	ENG MATH	COMMON
			MATERIALS	COMMON
			Produce parts by bench work	CORE
			Communication skills	BASIC
			digital literacy	BASIC
			Mechanical Principle skills	COMMON
			Lathe work	CORE
			Join parts by manual arc welding	CORE
			Perform workshop processes	CORE
			ENGINEERING DRAWING	COMMON
			ASSESSMENT FEE	12,000/=
WFL4 24S				
28	CDACC	SUMMATIVE	Manual arc(stick) welding	CORE
			Gas Welding	CORE
			Communication skills	BASIC
			Numeracy Skills	BASIC



			Occupational safety and health practices	BASIC
			Digital literacy	BASIC
			Workshop Processes	COMMON
			ASSESSMENT FEE	5,500/=
ATL6 25J				
29	NyNP	SUMMATIVE/FORMATIVE	ENG MATHS	COMMON
			COM/SK	BASIC
			ENGINES	CORE
			TRANSMISSION SYSTEM	CORE
			BRAKING SYSTEM	CORE
			Digital Literacy	BASIC
			Technical Drawings	COMMON
			ENG MATHS	COMMON
			ASSESSMENT FEE	9,500/=
ATL5 25J				
30	NyNP	SUMMATIVE/FORMATIVE	Vehicle Engine Components	CORE
			Vehicle Braking System	CORE
			Vehicle Transmission Systems	CORE
			Communication Skills	BASIC
			Mechanical Science	COMMON
			Engineering Mathematics	COMMON
			Digital Literacy	BASIC
			Entrepreneurial Skills	BASIC
			Electrical Principles	COMMON
			Workshop Technology Principles	COMMON
			TECHNICAL DRAWING	COMMON
			ASSESSMENT FEE	12,500/=
ATL4 25J				
31	CDACC	SUMMATIVE	BASIC MATHS	COMMON
			Servicing Vehicle Braking Systems.	CORE
			Servicing and Repairing Vehicle Engines.	CORE
			Servicing Vehicle Electrical Systems.	CORE
			Communication Skills	BASIC
			Geometry Drawing	COMMON
			Basic Science Principles	COMMON
			Workshop Technology Applications	COMMON
			Servicing and Repairing Vehicle Fuel Systems.	CORE
			ASSESSMENT FEE	7,500/=

Prepared by:

(Signature)
Kiambi S G

HoD Mechanical engineering department



APPENDIX 1 FEE PER UNIT OF COMPETENCY AS PER EXAMINATION GUIDELINES				
S.NO	KNQA LEVEL	BASIC UNITS	COMMON UNITS	CORE UNITS
1.	3	700/=	1000/=	1000/=
2.	4	700/=	1000/=	1000/=
3.	5	1000/=	1500/=	1500/=
4.	6	1000/=	1500/=	1500/=

